

ABSTRACT OF THE DISCLOSURE

The invention concerns a method for controlling high pressure fuel supply of a set of injectors connected to a common high pressure chamber, called common rail C in a direct injection fuel circuit, through a high pressure pump (P), by acting on the low pressure supply of said pump (P) through an electromagnetic slide valve (E), controlled by the computer managing the operating conditions of the engine which consists in providing, inside the electromagnetic valve (E) one or more internal leakage flows, either from high pressure to low pressure, or from low pressure upstream of the electromagnetic valve (E) to the low pressure downstream thereby solving the specific problems related to the three operating modes of the engine: engine brake, engine shutdown, idle speed.